

# Energy Codes Codes Collaborative

## Site Education Program

Eric Makela

# The \$65,000 Questions.....

- What is your level of compliance with the IECC?
- What issues are the building departments having with the IECC that are barriers to implementation?
- What technical issues are coming up in the field that you don't know about?
- What processes do the jurisdictions use to enforce the IECC and do they work?
- Is the assistance and training that you provide to building and enforcement industry on track?

# Site Educator Program Goal

- Assess how energy codes are being implemented in the plan review process and determine if there are any issues that the jurisdiction is facing.
- Assess how energy codes are being implemented in the field inspection process and determine if there are any issues that the jurisdiction is facing.
- Determine the training and technical support needs of the jurisdiction for energy code enforcement.

# Site Educator Program

## What This Is Not

# Audit

# Protocol

- Letter to jurisdiction
- Pre-Plan review – Two residential buildings
- Pre-Plan review - One commercial building
- Onsite Interview
- Field inspection – Two residential
- Field inspection – One commercial building
- Final report

# Protocol (*con't*)

## Length of time (*anticipated*)

- Plan Review – ½ Day
  - Conducted prior to visit
- Jurisdiction Visit – 1 Day
  - Included interview
  - Plan review training
  - Onsite visits
- Total Time in Jurisdiction - 1 Day

# Letter to Jurisdiction

## Letter Sent from the Idaho Association of Building Officials

- Signed by the chapter president
- Increases credibility for the program
- Reduces barriers to participation

# Site Educator Team

- Codes Collaborative
  - Set Policy and Protocol
- Eric Makela, Britt/Makela Group
  - On-Site Educator
- Ken Baker, K energy
  - On-Site Educator



# Plan Review

Select two residential and one commercial buildings that can be field inspected

- Plan review conducted prior to jurisdiction visit
- Spot check documentation against the building plans
- Record good practices that can be used as examples
- Record issues that will need to be addressed

# Interview

- Ask questions to better determine process for both plan review and inspection
- Determine problems and issues that jurisdictions are having with IECC code provisions
- Discuss findings from plan review phase of project.

# Interview

- Information used to:
  - Determine issues
  - Modify future training offerings
  - Program planning

# Field Inspection

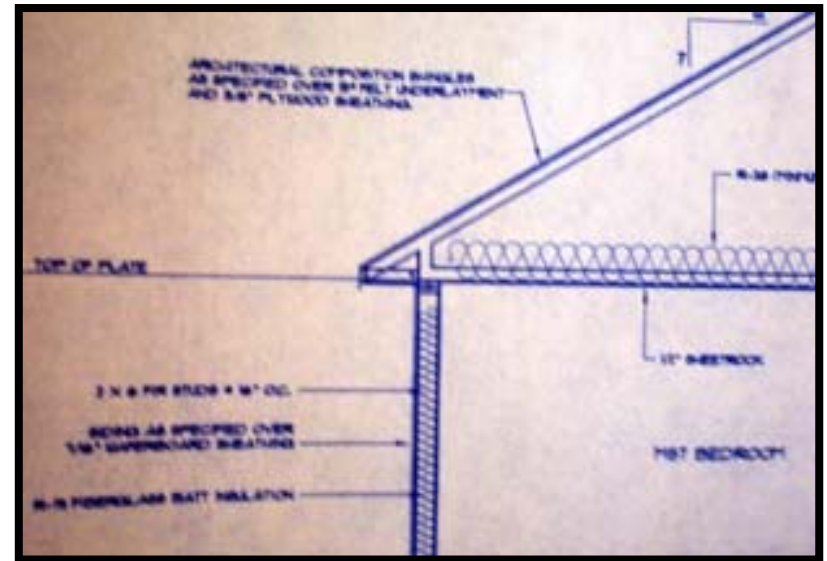
Goal: Inspect buildings that were selected for plan review

- Review buildings for compliance with the IECC
- Determine inspection process
- Instruct inspectors on field inspection procedures
- Determine field issues
- Identify examples of good practice

# Results



# Field Inspection – Good Practice



# Crawlspaces





# Bonus Room Insulation





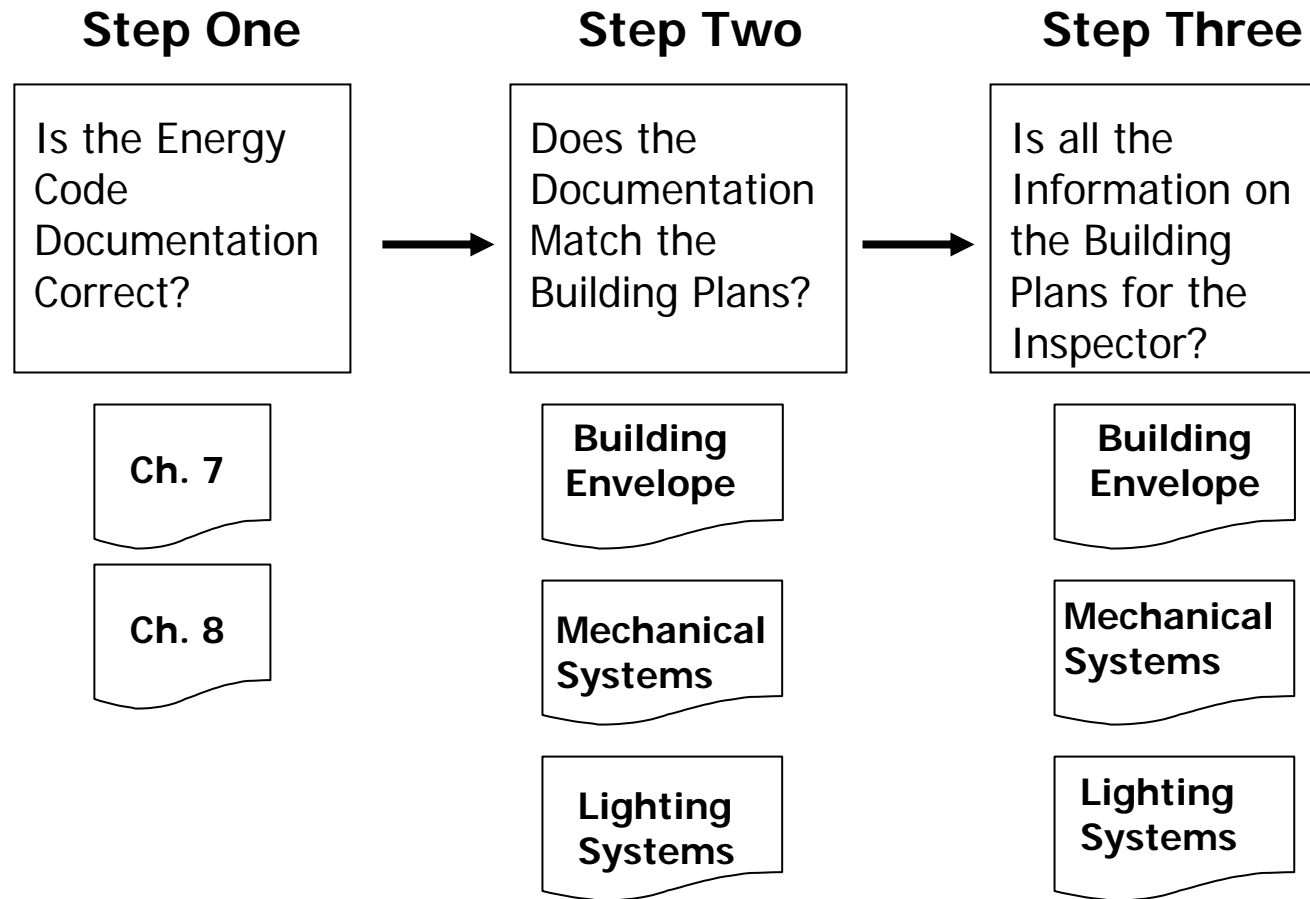
# Vaulted Ceilings



## Vaulted Ceiling Insulation



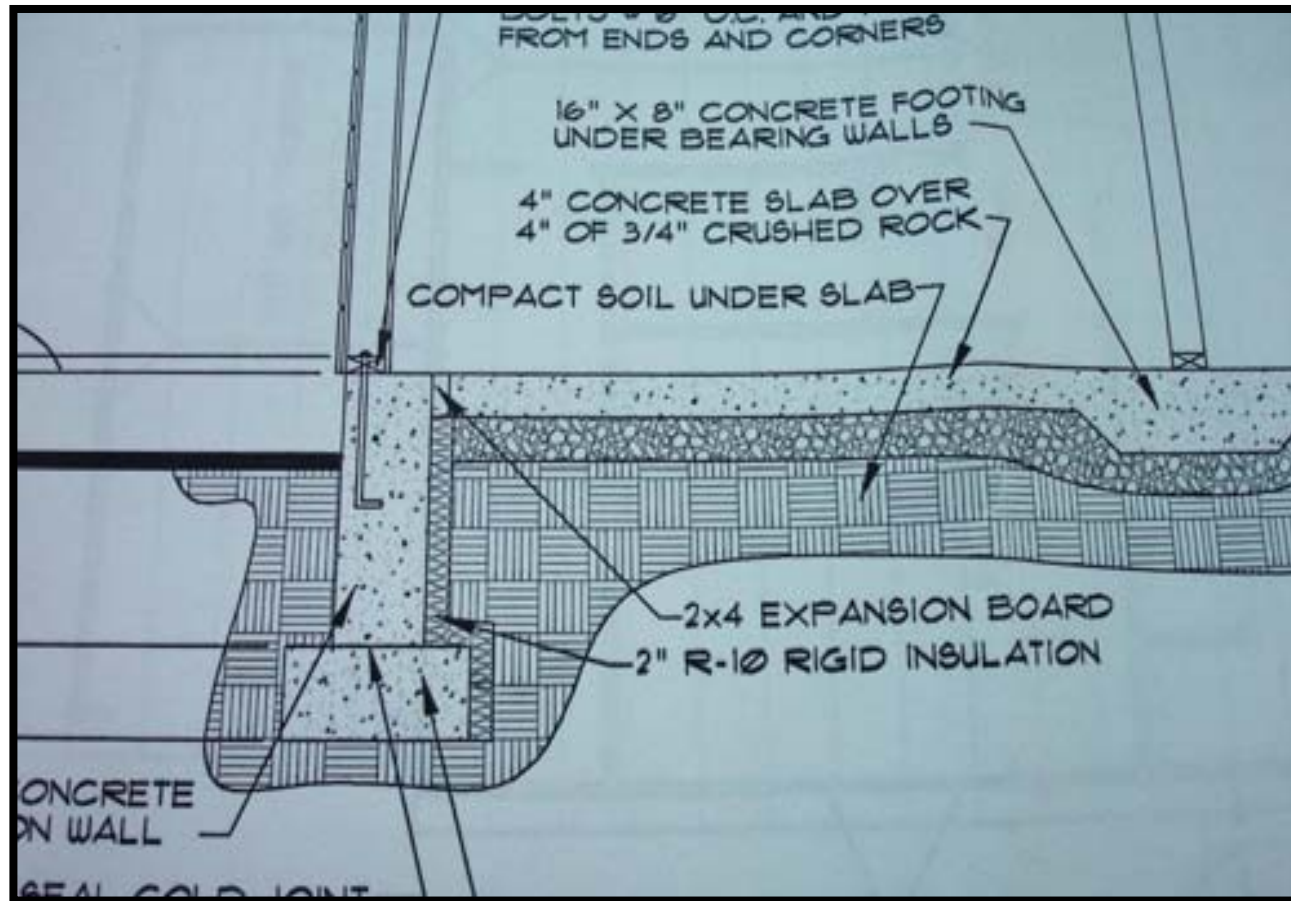
# Energy Plans Examiner and Inspector Process



# Roof Insulation – Air Barrier?



# Slab on Grade



## Slab Edge Insulation Installation



# Slab on Grade



Slab Edge Insulation Improper Installation

# New Practices and Materials



Britt/Makela Group, Inc

# Crawlspace Issues

## Self Watering Crawlspace????



# Summary

- Site Education Program Provides....
  - First hand information on what is really going on;
  - Personal contact with those in the field that are trying to make this work;
  - Excellent source of information sharing;
  - Training on issues relevant to the jurisdiction;
  - Information for future planning for training, technical assistance and future code adoption;
  - Increased rate of implementation and energy savings.